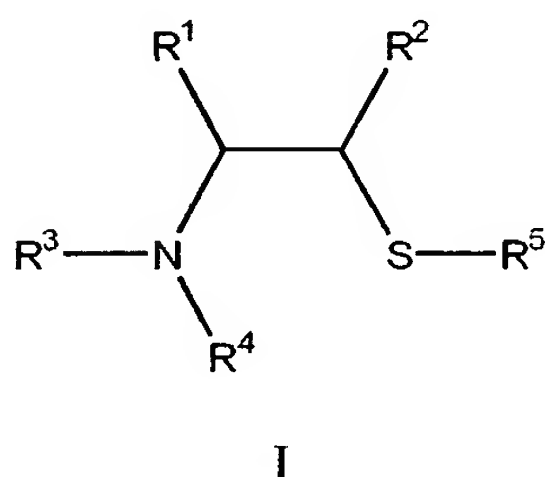


WHAT IS CLAIMED IS:

1. An aminothiols compound, having a general formula I,



wherein R^1 - R^5 are substitutable ligands; and

R^1 is aryl or alkyl of C2-C9;

R^2 is aryl or alkyl of C1-C9;

R^3 is alkyl of C1-C9;

R^4 is alkyl of C1-C9; or

R^3 , R^4 and N form a cycle; and

R^5 is H or alkyl of C1-C6.

13. The aminothiols compound as claimed in claim 1, wherein R^3 , R^4 and N form a three-to-eight- membered heterocycle.

14. The aminothiols compound as claimed in claim 12, wherein R^3 , R^4 , O and N form a ring by means of morpholine.

15. The aminothiols compound as claimed in claim 1, wherein R^3 , R^4 , O and N form a ring by means of morpholine.

16. The aminothiols compound as claimed in claim 1, which are chiral ligands capable of reacting with organic metal compounds to form

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metal complexes and then react as alkylmetal with carbonyl compounds to produce chiral alcohols in asymmetric addition reactions.

17. The aminothiols compound as claimed in claim 16, wherein said carbonyl compound is aldehyde.

18. The aminothiols compound as claimed in claim 16, wherein said carbonyl compound is ketone.

19. The aminothiols compound as claimed in claim 16, wherein said organic metal is Zn, Cu, or Ti.